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January 28, 2021

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

Re: Duke Energy Progress, LLC- Monthly Fuel Report
Docket Number: 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of December 2020.

Sincerely,

A handwritten signature in blue ink that reads "Katie M. Brown". The signature is written in a cursive, flowing style.

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Jeff Nelson, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Ryder Thompson, Office of Regulatory Staff

Schedule 1

DUKE ENERGY PROGRESS
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item	DECEMBER 2020
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 137,907,409
	MWH sales:	
2	Total System Sales	5,701,819
3	Less intersystem sales	<u>741,024</u>
4	Total sales less intersystem sales	<u>4,960,795</u>
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	<u>2.7799</u>
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	<u>2.2913</u>
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	987,791
8	Oil	813
9	Natural Gas - Combustion Turbine	220,732
10	Natural Gas - Combined Cycle	2,085,488
11	Biogas	<u>1,461</u>
12	Total Fossil	<u>3,296,285</u>
13	Nuclear	2,370,114
14	Hydro - Conventional	98,648
15	Solar Distributed Generation	15,792
16	Total MWH generation	<u>5,780,839</u>

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	DECEMBER 2020
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 36,630,962
0501310 fuel oil consumed - steam	389,899
Total Steam Generation - Account 501	37,020,861
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	13,972,291
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	1,885,569
0547000 natural gas capacity - Combustion Turbine	204,004
0547000 natural gas consumed - Combined Cycle	54,006,971
0547000 natural gas capacity - Combined Cycle	13,301,844
0547106 biogas consumed - Combined Cycle	51,675
0547200 fuel oil consumed	1,232,923
Total Other Generation - Account 547	70,682,986
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	31,193,207
Fuel and fuel-related component of DERP purchases	52,604
PURPA purchased power capacity	4,765,513
DERP purchased power capacity	9,982
Total Purchased Power and Net Interchange - Account 555	36,021,306
Less:	
Fuel and fuel-related costs recovered through intersystem sales	20,719,862
Solar Integration Charge	39
Miscellaneous Fees Collected	211,652
Total Fuel Credits - Accounts 447/456	20,931,553
Total Costs Included in Base Fuel Component	\$ 136,765,891
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 269
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	1,320,496
Emission Allowance Gains	(400)
Less reagents expense recovered through intersystem sales - Account 447	126,680
Less emissions expense recovered through intersystem sales - Account 447	52,167
Total Costs Included in Environmental Component	1,141,518
Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 137,907,409
DERP Incremental Costs	281,627
Total Fuel and Fuel-related Costs	\$ 138,189,036

Notes:

Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	DECEMBER 2020
DERP Avoided Costs (Total Capacity and Energy)	
Purchased Power Agreements	\$ 5,517
Shared Solar Program	357
Total DERP Avoided Costs	\$ 5,873
 DERP Incremental Costs	
Purchased Power Agreements	2,181
DERP NEM Incentive	158,892
Solar Rebate Program - Amortization	50,089
Solar Rebate Program - Carrying Costs	39,983
Shared Solar Program	3,466
NEM Avoided Capacity Costs	377
NEM Meter Costs	10,759
General and Administrative Expenses	15,860
Interest on under-collection due to cap	21
Total DERP Incremental Costs	\$ 281,627

Notes:

Detail amounts may not add to totals shown due to rounding.
All amounts represent SC retail.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

**Schedule 3, Purchases
Page 1 of 2**

DECEMBER 2020

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
DE Carolinas - Emergency	\$ 100,774	-	1,180	\$ 61,472	\$ 39,302
Broad River Energy, LLC	4,301,466	1,844,203	45,319	2,457,263	-
City of Fayetteville	733,439	708,500	82	24,939	-
DE Carolinas - Native Load Transfer	2,809,986	-	85,741	2,809,992	(6)
DE Carolinas - Native Load Transfer Benefit	297,225	-	-	297,225	-
DE Carolinas - Fees	(734)	-	-	(734)	-
Haywood EMC	28,550	28,550	-	-	-
NCEMC	3,977,323	3,251,253	16,810	726,070	-
PJM Interconnection, LLC	131	-	-	131	-
Southern Company Services	7,567,064	3,088,843	140,599	4,478,221	-
Energy Imbalance	8,840	-	271	8,370	470
Generation Imbalance	843	-	58	800	43
	\$ 19,824,907	\$ 8,921,349	290,060	\$ 10,863,749	\$ 39,809
Act 236 PURPA Purchases					
DERP Qualifying Facilities	\$ 65,309	-	1,503	\$ 65,309	-
Other Qualifying Facilities	11,618,462	-	220,076	11,618,462	-
Renewable Energy	13,486,510	-	198,282	13,486,510	-
CPRE - Purchased Power	(10,000)	-	-	(10,000)	-
	\$ 25,160,281	-	419,861	\$ 25,160,281	-
Total Purchased Power	\$ 44,985,188	\$ 8,921,349	709,921	\$ 36,024,030	\$ 39,809

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA**

Schedule 3, Sales
Page 2 of 2

DECEMBER 2020

Sales	Total \$	Capacity \$	mWh	Non-capacity Fuel \$	Non-fuel \$
Utilities:					
DE Carolinas - As Available Capacity	\$ 3,826	\$ 3,826	-	-	-
Market Based:					
NCEMC Purchase Power Agreement	741,316	652,500	2,661	\$ 97,941	\$ (9,125)
PJM Interconnection, LLC	(564)	-	-	14	(578)
Other:					
DE Carolinas - Native Load Transfer	19,493,827	-	738,327	18,661,090	832,737
DE Carolinas - Native Load Transfer Benefit	2,139,555	-	-	2,139,555	-
Generation Imbalance	127	-	36	109	18
Total Intersystem Sales	\$ 22,378,087	\$ 656,326	741,024	\$ 20,898,709	\$ 823,052

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
DECEMBER 2020

Schedule 4
Page 1 of 3

			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Line No.							
1	Actual System kWh sales	Input					4,960,795,339
2	DERP Net Metered kWh generation	Input					2,311,961
3	Adjusted System kWh sales	L1 + L2					4,963,107,300
4	Actual S.C. Retail kWh sales	Input	189,915,054	21,994,496	247,196,440	6,431,565	465,537,555
5	DERP Net Metered kWh generation	Input	1,368,656	26,511	916,794		2,311,961
6	Adjusted S.C. Retail kWh sales	L4 + L5	191,283,710	22,021,007	248,113,234	6,431,565	467,849,516
7	Actual S.C. Demand units (kw)	L32 / 31b *100			647,817		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$118,431,942
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$52,306
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$118,484,248
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.387
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$4,566,516	\$525,707	\$5,923,207	\$153,541	\$11,168,971
13	Assign 100 % of Avoided Fuel Benefit of S.C. net metering	Input	(\$27,684)	(\$2,731)	(\$21,891)	\$0	(\$52,306)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$4,538,832	\$522,976	\$5,901,316	\$153,541	\$11,116,665
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	1.888	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 / 100	\$3,585,936	\$415,036	\$4,664,597	\$121,364	\$8,786,933
17	DERP NEM incentive - fuel component	Input	\$2,928	\$289	\$2,315	\$0	\$5,532
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$3,588,864	\$415,325	\$4,666,912	\$121,364	\$8,792,465
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	\$949,968	\$107,651	\$1,234,404	\$32,177	\$2,324,200
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	\$949,968	\$107,651	\$1,234,404	\$32,177	\$2,324,200
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.478	0.407			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			111		
23	Incurred S.C. base fuel - capacity expense	Input	\$907,500	\$89,521	\$717,624		\$1,714,645
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (¢/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 / 100	\$1,003,534	\$78,740	\$699,635	\$0	\$1,781,909
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	(\$96,034)	\$10,781	\$17,989	\$0	(\$67,264)
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	(\$96,034)	\$10,781	\$17,989	\$0	(\$67,264)
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.030	0.025			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			7		
30	Incurred S.C. environmental expense	Input	\$56,697	\$5,593	\$44,834		\$107,124
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.021	0.012			
31b	Billed environmental rate (¢/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 / 100	\$39,613	\$2,639	\$38,869		\$81,121
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	\$17,084	\$2,954	\$5,965	\$0	\$26,003
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$17,084	\$2,954	\$5,965	\$0	\$26,003
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.002	0.001			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0		
37	Incurred S.C. DERP avoided cost expense	Input	\$3,108	\$307	\$2,458		\$5,873
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 / 100	\$3,773	\$220	\$12,956		\$16,949
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	(\$665)	\$87	(\$10,498)	\$0	(\$11,076)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	(\$665)	\$87	(\$10,498)	\$0	(\$11,076)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	\$870,353	\$121,473	\$1,247,860	\$32,177	\$2,271,863

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
DECEMBER 2020**

Schedule 4
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Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - forecast

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$8,184,894					
6,703,728	(\$500,048)	(\$60,906)	(\$900,533)	(\$19,679)	(\$1,481,166)
4,364,676	(697,174)	(89,196)	(1,518,585)	(34,097)	(2,339,052)
4,577,719	65,636	6,313	137,505	3,589	213,043
4,478,233	(30,783)	(6,228)	(61,363)	(1,112)	(99,486)
6,715,676	792,265	102,353	1,317,188	25,637	2,237,443
8,724,125	679,243	87,051	1,222,797	19,358	2,008,449
8,099,982	(235,888)	(34,162)	(346,669)	(7,424)	(624,143)
5,919,391	(611,844)	(94,900)	(1,444,195)	(29,652)	(2,180,591)
5,901,814	(8,035)	(2,590)	(6,889)	(63)	(17,577)
8,226,014	949,968	107,651	1,234,404	32,177	2,324,200
8,222,434	(1,448)	(149)	(1,937)	(46)	(3,580)
8,069,167	(59,835)	(6,508)	(84,895)	(2,029)	(153,267)
7,875,137	(70,241)	(8,803)	(112,298)	(2,688)	(194,030)
6,527,144	(425,476)	(66,490)	(836,015)	(20,012)	(1,347,993)
5,879,741	(194,435)	(32,697)	(410,451)	(9,820)	(647,403)
\$5,189,938	(221,168)	(33,738)	(424,799)	(10,098)	(\$689,803)

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - forecast

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$2,280,576					
2,080,723	(\$542,342)	(\$57,884)	\$400,373	\$0	(\$199,853)
2,576,867	198,269	22,469	275,406	0	496,144
3,180,854	263,866	26,727	313,394	0	603,987
3,332,298	(50,274)	(6,671)	208,389	0	151,444
3,922,473	144,961	17,783	427,431	0	590,175
4,544,592	227,860	33,406	360,853	0	622,119
4,825,152	107,838	15,343	157,379	0	280,560
5,414,755	393,328	35,047	161,228	0	589,603
5,772,003	276,764	25,524	54,960	0	357,248
5,704,739	(96,034)	10,781	17,989	0	(67,264)
5,058,786	(407,272)	567	(239,248)	0	(645,953)
4,546,334	(332,621)	1,077	(180,908)	0	(512,452)
4,447,014	(13,020)	18,349	(104,649)	0	(99,320)
4,656,667	143,282	13,769	52,602	0	209,653
4,824,184	209,289	14,188	(55,960)	0	167,517
\$4,552,627	6,443	2,092	(280,092)	0	(\$271,557)

Cumulative (over) / under recovery - **ENVIRONMENTAL**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - forecast

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
(\$86,728)					
(234,402)	(\$97,924)	(\$9,094)	(\$40,656)	\$0	(\$147,674)
(399,194)	(93,739)	(9,066)	(61,987)	0	(164,792)
(553,737)	(87,410)	(8,677)	(58,456)	0	(154,543)
(605,586)	(41,045)	(4,402)	(6,402)	0	(51,849)
(555,502)	13,176	1,515	35,393	0	50,084
(382,799)	93,287	10,247	69,169	0	172,703
(371,786)	10,098	1,743	(828)	0	11,013
(414,291)	(13,748)	(1,090)	(27,667)	0	(42,505)
(462,895)	(16,745)	(1,338)	(30,501)	0	(48,604)
(436,892)	17,084	2,954	5,965	0	26,003
(281,947)	86,896	10,674	57,375	0	154,945
(100,540)	100,632	11,761	69,014	0	181,407
(52,189)	34,711	4,695	8,945	0	48,351
(115,865)	(26,550)	(2,141)	(34,985)	0	(63,676)
(185,562)	(25,245)	(2,248)	(42,204)	0	(69,697)
(\$212,357)	(7)	580	(27,368)	0	(\$26,795)

Cumulative (over) / under recovery - **DERP AVOIDED COSTS**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - forecast

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$12,641					
11,876	(\$2,864)	(\$414)	\$2,513	\$0	(\$765)
12,921	(964)	(203)	2,212	0	1,045
16,781	603	(55)	3,312	0	3,860
32,685	6,591	490	8,823	0	15,904
32,855	1,192	62	(1,084)	0	170
30,362	3,988	534	(7,015)	0	(2,493)
22,557	1,299	236	(9,340)	0	(7,805)
16,369	2,282	278	(8,748)	0	(6,188)
14,029	4,291	480	(7,111)	0	(2,340)
2,953	(665)	87	(10,498)	0	(11,076)
(8,279)	863	318	(12,413)	0	(11,232)
(17,888)	1,346	341	(11,296)	0	(9,609)
(27,769)	2,055	357	(12,293)	0	(9,881)
(32,769)	3,064	381	(8,445)	0	(5,000)
(38,385)	3,996	451	(10,063)	0	(5,616)
(\$50,041)	2,173	305	(14,134)	0	(\$11,656)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
DECEMBER 2020

Schedule 4
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Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$149,055	\$78,714	\$53,858	\$281,627
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	\$146,963	\$124,317	\$26,925	\$298,205
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	2,092	(\$45,603)	\$26,933	(\$16,578)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	\$2,092	(\$45,603)	\$26,933	(\$16,578)

Cumulative (over) / under recovery

	Cumulative	Total
Balance ending February 2020	\$45,020	
March 2020 - actual	22,698	(\$22,322)
April 2020 - actual	19,428	(3,270)
May 2020 - actual	14,695	(4,733)
June 2020 - actual	25,056	10,361
July 2020 - actual	76,859	51,803
August 2020 - actual	98,892	22,033
September 2020 - actual	147,012	48,120
October 2020 - actual	165,750	18,738
November 2020 - actual	153,788	(11,962)
December 2020 - actual	137,210	(16,578)
January 2021 - forecast	268,628	131,418
February 2021 - forecast	400,021	131,393
March 2021 - forecast	531,520	131,499
April 2021 - forecast	663,388	131,868
May 2021 - forecast	795,503	132,115
June 2021 - forecast	\$927,690	\$132,187

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

- /1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.
 /2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.
 /3 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.
 /4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
Cost of Fuel Purchased (\$)							
Coal	\$953,183	\$18,807,870	-	-	-	-	-
Oil	-	368,352	-	-	-	-	-
Gas - CC	-	-	\$9,452,029	\$28,154,070	\$13,719,519	\$15,983,197	-
Gas - CT	-	-	741,747	329,044	209,099	-	-
Biogas	-	-	-	362,603	-	-	-
Total	\$953,183	\$19,176,222	\$10,193,776	\$28,845,717	\$13,928,618	\$15,983,197	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	323.38	271.56	-	-	-	-	-
Oil	-	935.38	-	-	-	-	-
Gas - CC	-	-	416.58	372.01	471.97	421.07	-
Gas - CT	-	-	418.63	491.14	1,079.16	-	-
Biogas	-	-	-	2,879.17	-	-	-
Weighted Average	323.38	275.31	416.73	377.18	475.99	421.07	-
Cost of Fuel Burned (\$)							
Coal	-	\$36,630,962	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	\$58,904	330,994	\$70,476	\$195,885	\$10,012	-	\$49,349
Gas - CC	-	-	9,452,029	28,154,070	13,719,519	\$15,983,197	-
Gas - CT	-	-	741,747	329,044	209,099	-	-
Biogas	-	-	-	362,603	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	\$58,904	\$36,961,956	\$10,264,252	\$29,041,602	\$13,938,630	\$15,983,197	\$49,349
Average Cost of Fuel Burned (¢/MBTU)							
Coal	-	321.70	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	1,313.65	1,043.68	1,522.82	1,662.58	2,060.08	-	1,684.27
Gas - CC	-	-	416.58	372.01	471.97	421.07	-
Gas - CT	-	-	418.63	491.14	1,079.16	-	-
Biogas	-	-	-	2,879.17	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	1,313.65	323.70	418.82	379.16	476.26	421.07	1,684.27
Average Cost of Generation (¢/kWh)							
Coal	-	3.71	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	-	11.03	18.09	18.31	21.75	-	42.91
Gas - CC	-	-	2.87	3.45	3.33	3.02	-
Gas - CT	-	-	4.80	0.18	11.38	-	-
Biogas	-	-	-	24.82	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	3.73	2.97	2.90	3.37	3.02	42.91
Burned MBTU's							
Coal	-	11,386,762	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	4,484	31,714	4,628	11,782	486	-	2,930
Gas - CC	-	-	2,268,952	7,568,114	2,906,848	3,795,815	-
Gas - CT	-	-	177,185	66,996	19,376	-	-
Biogas	-	-	-	12,594	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	4,484	11,418,476	2,450,765	7,659,486	2,926,710	3,795,815	2,930
Net Generation (mWh)							
Coal	-	987,791	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	(7,935)	3,002	390	1,070	46	-	115
Gas - CC	-	-	329,707	815,358	412,025	528,398	-
Gas - CT	-	-	15,459	182,878	1,837	-	-
Biogas	-	-	-	1,461	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-
Total	(7,935)	990,793	345,556	1,000,767	413,908	528,398	115
Cost of Reagents Consumed (\$)							
Ammonia	\$8,816	\$242,086	-	\$29,844	-	-	-
Limestone	-	772,527	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	2,382	274,013	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	\$11,198	\$1,288,626	-	\$29,844	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
DECEMBER 2020**

**Schedule 5
Page 2 of 2**

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME DECEMBER 2020
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$19,761,053	\$226,623,878
Oil	-	-	-	-	-	-	368,352	7,107,642
Gas - CC	-	-	-	-	-	-	67,308,815	528,965,772
Gas - CT	-	\$809,659	\$24	-	-	-	2,089,573	49,877,157
Biogas	-	-	-	-	-	-	362,603	4,901,468
Total	-	\$809,659	\$24	-	-	-	\$89,890,396	\$817,475,917
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	273.67	387.98
Oil	-	-	-	-	-	-	935.38	1,303.71
Gas - CC	-	-	-	-	-	-	406.95	361.34
Gas - CT	-	363.16	-	-	-	-	429.51	311.58
Biogas	-	-	-	-	-	-	2,879.17	2,860.80
Weighted Average	-	363.16	-	-	-	-	369.94	369.08
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$36,630,962	\$241,118,962
Oil - CC	-	-	-	-	-	-	-	386,916
Oil - Steam/CT	\$213,162	\$639,268	\$54,772	-	-	-	1,622,822	8,020,152
Gas - CC	-	-	-	-	-	-	67,308,815	528,965,772
Gas - CT	-	809,659	24	-	-	-	2,089,573	49,877,157
Biogas	-	-	-	-	-	-	362,603	4,901,468
Nuclear	-	-	-	\$8,345,710	\$3,281,700	\$2,344,881	13,972,291	172,424,558
Total	\$213,162	\$1,448,927	\$54,796	\$8,345,710	\$3,281,700	\$2,344,881	\$121,987,066	\$1,005,694,985
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	321.70	363.93
Oil - CC	-	-	-	-	-	-	-	1,536.54
Oil - Steam/CT	1,721.41	1,742.06	1,590.36	-	-	-	1,495.04	1,434.73
Gas - CC	-	-	-	-	-	-	406.95	361.34
Gas - CT	-	363.16	-	-	-	-	429.51	311.58
Biogas	-	-	-	-	-	-	2,879.17	2,860.80
Nuclear	-	-	-	56.41	56.40	57.90	56.66	56.35
Weighted Average	1,721.41	558.05	1,591.06	56.41	56.40	57.90	229.32	187.84
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.71	4.10
Oil - CC	-	-	-	-	-	-	-	15.00
Oil - Steam/CT	25.53	20.12	48.47	-	-	-	199.61	32.79
Gas - CC	-	-	-	-	-	-	3.23	2.65
Gas - CT	-	3.94	-	-	-	-	0.95	3.04
Biogas	-	-	-	-	-	-	24.82	21.12
Nuclear	-	-	-	0.59	0.57	0.61	0.59	0.59
Weighted Average	25.53	6.10	48.49	0.59	0.57	0.61	2.11	1.73
Burned MBTU's								
Coal	-	-	-	-	-	-	11,386,762	66,253,898
Oil - CC	-	-	-	-	-	-	-	25,181
Oil - Steam/CT	12,383	36,696	3,444	-	-	-	108,547	559,001
Gas - CC	-	-	-	-	-	-	16,539,729	146,391,896
Gas - CT	-	222,947	-	-	-	-	486,504	16,007,810
Biogas	-	-	-	-	-	-	12,594	171,332
Nuclear	-	-	-	14,793,826	5,818,529	4,049,533	24,661,888	305,978,773
Total	12,383	259,643	3,444	14,793,826	5,818,529	4,049,533	53,196,024	535,387,891
Net Generation (mWh)								
Coal	-	-	-	-	-	-	987,791	5,886,749
Oil - CC	-	-	-	-	-	-	-	2,579
Oil - Steam/CT	835	3,178	113	-	-	-	813	24,458
Gas - CC	-	-	-	-	-	-	2,085,488	19,952,872
Gas - CT	-	20,557	-	-	-	-	220,732	1,639,038
Biogas	-	-	-	-	-	-	1,461	23,203
Nuclear	-	-	-	1,412,168	570,901	387,045	2,370,114	29,406,439
Hydro (Total System)	-	-	-	-	-	-	98,648	879,935
Solar (Total System)	-	-	-	-	-	-	15,792	246,901
Total	835	23,735	113	1,412,168	570,901	387,045	5,780,839	58,062,175
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	\$280,746	\$1,416,721
Limestone	-	-	-	-	-	-	772,527	6,396,160
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	276,395	2,617,015
Urea	-	-	-	-	-	-	-	9,424
Total	-	-	-	-	-	-	\$1,329,668	\$10,439,320

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
DECEMBER 2020

Schedule 6
Page 1 of 2

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	437,668	1,016,350	-	-	-	-	-
Tons received during period	12,333	280,673	-	-	-	-	-
Inventory adjustments	68,152	64,441	-	-	-	-	-
Tons burned during period	-	460,740	-	-	-	-	-
Ending balance	518,153	900,724	-	-	-	-	-
MBTUs per ton burned	-	24.71	-	-	-	-	-
Cost of ending inventory (\$/ton)	78.90	79.50	-	-	-	-	-
Oil Data:							
Beginning balance	304,886	300,690	4,448,809	7,937,640	2,592,206	-	743,962
Gallons received during period	-	285,364	-	-	-	-	-
Miscellaneous use and adjustments	(1,253)	(15,004)	-	-	-	-	-
Gallons burned during period	32,503	232,094	33,660	84,155	3,570	-	20,858
Ending balance	271,130	338,956	4,415,149	7,853,485	2,588,636	-	723,104
Cost of ending inventory (\$/gal)	1.81	1.43	2.09	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	2,366,368	7,364,552	2,823,346	3,662,500	-
MCF burned during period	-	-	2,366,368	7,364,552	2,823,346	3,662,500	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	12,152	-	-	-
MCF burned during period	-	-	-	12,152	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	15,406	95,304	-	-	-	-	-
Tons received during period	-	21,315	-	-	-	21	-
Inventory adjustments	10,002	3,207	-	-	-	-	-
Tons consumed during period	-	18,148	-	-	-	-	-
Ending balance	25,408	101,678	-	-	-	21	-
Cost of ending inventory (\$/ton)	29.96	41.47	-	-	-	185.23	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

[illegible]

Schedule 7

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
DECEMBER 2020**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	-	-	-
	CONTRACT	12,333	\$ 787,541	\$ 63.86
	FIXED TRANSPORTATION/ADJUSTMENTS	-	165,642	-
	TOTAL	12,333	\$ 953,183	77.29
ROXBORO	SPOT	-	\$ 16,869	-
	CONTRACT	280,673	17,731,552	\$ 63.18
	FIXED TRANSPORTATION/ADJUSTMENTS	-	1,059,449	-
	TOTAL	280,673	\$ 18,807,870	\$ 67.01
ALL PLANTS	SPOT	-	\$ 16,869	-
	CONTRACT	293,006	18,519,093	\$ 63.20
	FIXED TRANSPORTATION/ADJUSTMENTS	-	1,225,091	-
	TOTAL	293,006	\$ 19,761,053	\$ 67.44

Schedule 8

DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
DECEMBER 2020

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	8.43	11.88	11,950	0.74
ROXBORO	7.38	10.47	12,338	1.16

DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
DECEMBER 2020

	ROXBORO	
VENDOR	Greensboro Tank Farm	
SPOT/CONTRACT	Contract	
SULFUR CONTENT %	0	
GALLONS RECEIVED	285,364	
TOTAL DELIVERED COST	\$	368,352
DELIVERED COST/GALLON	\$	1.29
BTU/GALLON	138,000	

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
 January, 2020 - December, 2020
 Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	6,917,770	938	83.96	82.51
Brunswick 2	8,088,450	932	98.80	98.40
Harris 1	8,275,593	964	97.73	95.69
Robinson 2	6,124,626	759	91.86	90.57

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**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2020 through December, 2020
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,039,771	225	52.61	72.49
Lee Energy Complex	1B	1,157,910	227	58.07	79.96
Lee Energy Complex	1C	1,150,591	228	57.45	77.86
Lee Energy Complex	ST1	2,305,740	379	69.26	90.05
Lee Energy Complex	Block Total	5,654,012	1,059	60.78	81.53
Richmond County CC	7	954,015	194	55.98	78.74
Richmond County CC	8	938,673	194	55.08	77.94
Richmond County CC	ST4	1,102,306	182	68.95	85.53
Richmond County CC	9	1,320,105	216	69.58	81.10
Richmond County CC	10	1,314,306	216	69.27	79.63
Richmond County CC	ST5	1,720,801	248	78.99	89.87
Richmond County CC	Block Total	7,350,206	1,250	66.94	82.37
Sutton Energy Complex	1A	1,226,982	224	62.36	78.12
Sutton Energy Complex	1B	1,237,878	224	62.91	78.31
Sutton Energy Complex	ST1	1,548,834	271	65.06	88.38
Sutton Energy Complex	Block Total	4,013,694	719	63.55	82.05
Asheville CC	ACC CT5	1,043,253	190	62.51	76.37
Asheville CC	ACC CT7	1,027,585	190	61.57	78.70
Asheville CC	ACC ST6	490,224	90	62.01	67.23
Asheville CC	ACC ST8	399,681	90	50.56	78.24
Asheville CC	Block Total	2,960,743	560	60.19	75.99

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2020 through December, 2020**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	625,191	746	9.54	53.58
Roxboro 2	1,562,503	673	26.43	55.21
Roxboro 3	1,851,556	698	30.20	73.46
Roxboro 4	1,308,333	711	20.95	62.83

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2020 through December, 2020
Other Cycling Steam Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	17,389	192	1.03	6.83
Asheville	2	-1,988	192	-0.12	6.56
Roxboro	1	537,201	380	16.09	69.01

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2020 through December, 2020
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	178,168	345	94.84
Blewett CT	-342	68	95.41
Darlington CT	1,375	780	45.11
Richmond County CT	1,230,865	934	88.52
Sutton Fast Start CT	64,659	98	95.05
Wayne County CT	175,398	963	94.44
Weatherspoon CT	-62	164	92.15

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

SCHEDULE 10
PAGE 6 of 6

**Twelve Month Summary
January, 2020 through December, 2020
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	29,136	27.0	15.53
Marshall	-231	4.0	20.13
Tillery	316,756	84.0	95.12
Walters	534,273	113.0	63.92

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.